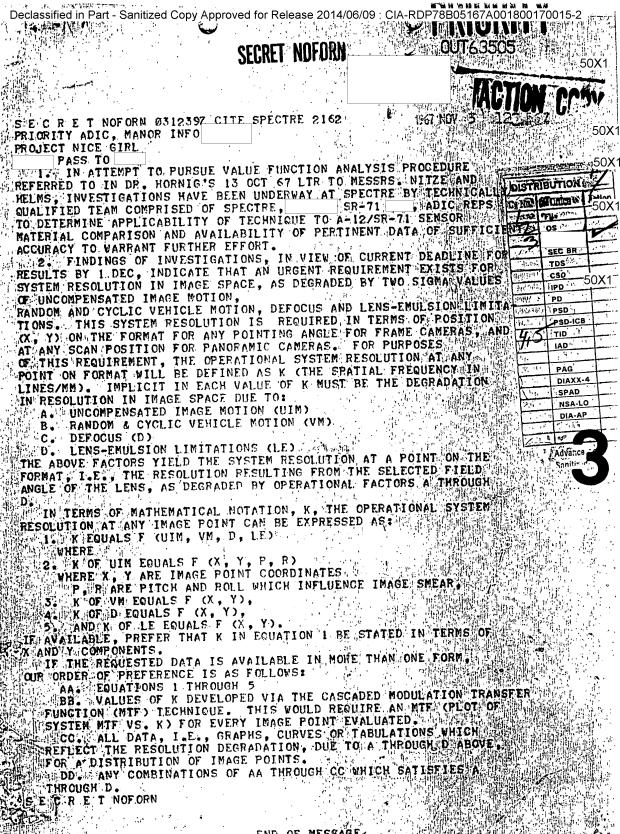
Declassified in Part - Sanitized Copy Approved for Release 2014/06/09: CIA-RDP78B05167A001800170015-2 TO A STATE OF THE PROPERTY OF SE C.R E T 031949Z CITE ADIC 3219 PRIORITY BABY INFO SPECTRE AN URGENT REQUIREMENT EXISTS FOR BABY TO FURNISH ASAPATHER FOLLOWING INFORMATION TO A SPECIAL STUDY GROUP CONVENED AT SPECIFE. DEADLINE FOR RESULTS BY 1 DEC. INDICATE THAT AN URGENT REQUIREMENT EXISTS FOR SYSTEM RESOLUTION IN IMAGE SPACE, AS DEGRADED BY TWO SIGNA VALUES OF UNCOMPENSATED IMAGE MOTION, RANDOM AND CYCLIC VEHICLE MOTION, DEFOCUS AND LENS-EMULSION LIMITATIONS. THIS SYSTEM RESOLUTION IS REQUIRED IN TERMS OF POSITION (X, Y) ON THE FORMATICAL FOR ANY POINTING ANGLE FOR FRAME CAMERAS, AND AT ANY SCAN POSITION FOR PANORAMIC CAMERAS. FOR PURPOSES OF THIS REQUIREMENT, THE OPERATIONAL SYSTEM RESOLUTION AT ANY POINT ON FORMAT WILL BE DEFINED AS K (THE SPATIAL FREQUENCY IN LINES/MM) . IMPLICIT IN EACH VALUE OF K MUST BE THE DEGRADATION IN PESOLUTION IN IMAGE SPACE DUE TO: A. UNCOMPENSATED IMAGE MOTION (UIM) RANDOM AND CYCLIC VEHICLE MOTION (VM) DEFOCUS (D) LENS-EMULSION LIMITATIONS (LE) THE ABOVE FACTORS YIELD THE SYSTEM RESOLUTION AT A POINT ON THE FORMAT, I.E., THE RESOLUTION RESULTING FROM THE SELECTED FIELD ANGLE 50X1 OF THE LENS, AS DEGRADED BY OPERATIONAL FACTORS A THROUGH D. IN TERMS OF MATHEMATICAL NOTATION, K, THE OPERATIONAL SYSTEM RESOLUTION AT ANY IMAGE POINT CAN BE EXPRESSED AS:

1. K EQUALS F (UIM, VM, D, LE) DISTRIBUTION WHERE Cy No. Office & Action 2. K OF UIM EQUALS F (X,Y,P,R)
WHERE X, Y ARE IMAGE POINT COORDINATES
P, R ARE PITCH AND ROLL WHICH INFLUENCE IMAGE SMEAR, 3. K OF VM EQUALS F (X, Y),
4. K OF D EQUALS F (X, Y),
5. AND K OF LE EQUALS F (X, Y). IE AVAILABLE, PREFER THAT K IN EQUATION I BE STATED IN TERMS OF XMAND Y COMPONENTS. MIF THE REQUESTED DATA IS AVAILABLE IN MORE THAN ONE FORM [17] CUR ORDER OF PREFERENCE IS AS FOLLOWS: BB. VALUES OF K DEVELOPED VIA THE CASCADED MODULATION TRANSF FUNCTION (MTF) TECHNIQUE. THIS WOULD REQUIRE AN MTF (PLOT OF DIAXX-4 SYSTEM MTF VS. K) FOR EVERY IMAGE POINT EVALUATED ... CC. ALL DATA, I.E., GRAPHS, CURVES OR TABULATIONS WHICH REFLECT THE RESOLUTION DEGRADATION, DUE TO A THROUGH D ABOVE. FOR A DISTRIBUTION OF IMAGE POINTS. MDD. ANY COMBINATIONS OF AA THROUGH CC WHICH SATISFIES A THROUGH D. " (END OF QUOTE) 3. TWO IMMEDIATE ANSWERS ARE REQUIRED FROM BABY: A. IS ABOVE INFO AND DATA AVAILABLE? B. IF AVAILABLE, WHAT IS EARLIEST DATE MATERIAL CAN BE RURNISHED TO SPECTRE? CONTINUE THERE ARE ANY QUESTIONS OR NEED FOR CLARIFICATION √50X1 RECT THEM TO SECRET

END OF MESSAGE



END OF MESSAGE

SECRET NOFORN

Declassified in Part - Sanitized Copy Approved for Release 2014/06/09: CIA-RDP78B05167A001800170015-1967 CCT 23 OUT63408 CRET 232055Z CITE SPECTRE 2065 PRIORITY MANOR INFO ADIC, WHIG SUBJECT - NICE GIRL 11. REVIEW OF 13 OCT 1967 MEMO FROM DR. HORNIG TO MESSRS NITZE AND HELMS (BYE 57350/67) (RECD SPECTRE 10/18/67) INDICATES NEED FOR EMPHASIZED ATTENTION TO SUGGESTION TO CONSIDER USENOR VALUE FUNCTION ANALYSIS AS ADDITIONAL POSSIBLE ASSIST IN EVALUATING AND COMPARING SR-71 AND A-12 SENSOR SYSTEMS. SIMILAR COMPARISON OF UNLIKE CAMERAS MADE IN SELECTION OF HEXAGON CAMERA SYSTEM. SPECTRE SUGGESTS NICE GIRL SUB-GROUP INVESTIGATE POSSIBILITY OF APPLYING SIMILAR ANALYTICAL APPROACH TO SR-71 TECH AND OPERATIONAL OBJECTIVE AND A-12 TYPE I. CAMERAS. 3. ADIC, USAF, SPECTRE, MANOR, VHIG GROUP COMPOSITION SUGGESTED. SECRET END OF MESSAGE

SECRET



Declassified in Part - Sanitized Copy Approved for Release 2014/06/09: CIA-RDP78B05167A001800170015-2 IN 23520 1367 GOT 28 , 221 1970 C RE I 262020Z CITE WHALE 8950 PRIORITY SPECTRE INFO WHIG MANOR ADIC SUBJECT: NICE GIRL REFERENCE SPECIRE 2065 (27.3407)

THIS REPLY FROM KWWHALE IS AT THE REQUEST OF KWWHIG.

CONCUR IN YOUR RECOMMENDATIONS.

AS A RESULT OF DISCUSSION WITH KWWHIG, IT IS REQUESTED THAT A VALUE FUNCTION ANALYSIS BE ACCOMPLISHED BY A SMALL GROUP ON A PRIORITY BASIS SEPARATELY FROM THE DATA ANALYSIS REQUESTED BY THE JCS.

KWWHALE, WILL THE YOUR ONLYSIS TO FEDSURE PROPER GROUND 50X1 WORK WITH YOU ON THIS ANALYSIS TO ENDSURE PROPER GROUND RULES ARE USED. SECRET DISTRIBUTION * Office Action END OF MESSAGE 50X1 SÉC BR TDS Advance coty HANDLE VIA BYEMAN CONTROL BYSTEM ONLY